

SHARP



The image shows the Sharp VC-MH770SM VCR and its remote control. The VCR is a silver unit with a digital display showing "19:28:00" and "VCR SP". It features a "6-HEAD INTELLIGENT Hi-Fi STEREO" label and "ON SCREEN DISPLAY / AUTO TUNING". The remote control is shown in a semi-transparent overlay, highlighting various buttons including "PLAY/X2", "STOP", "PAUSE/STILL", "REC", "CHANNEL", "INPUT SELECT", "DISPLAY", "CLEAR", "SET", "MENU", "SVN+/TIMER", "AM/PM", and numeric buttons (1-9, 0). The text "VC-MH770SM" is overlaid on the remote control.

VC-MH770SM

VIDEO CASSETTE RECORDER OPERATION MANUAL

- IGR Hi-Fi
- 6 HEAD EXTENDED PLAY
- SHARP SUPER PICTURE
- AUTO TUNING

VHS
PAL

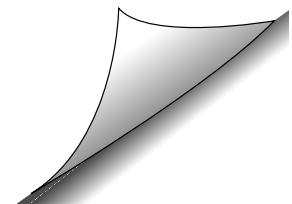
(GB) Dear SHARP customer

Thank you for buying this SHARP VCR. Given proper care it will provide years of entertainment for the whole family. Please read this operation manual carefully before attempting to operate the VCR.

Copyright

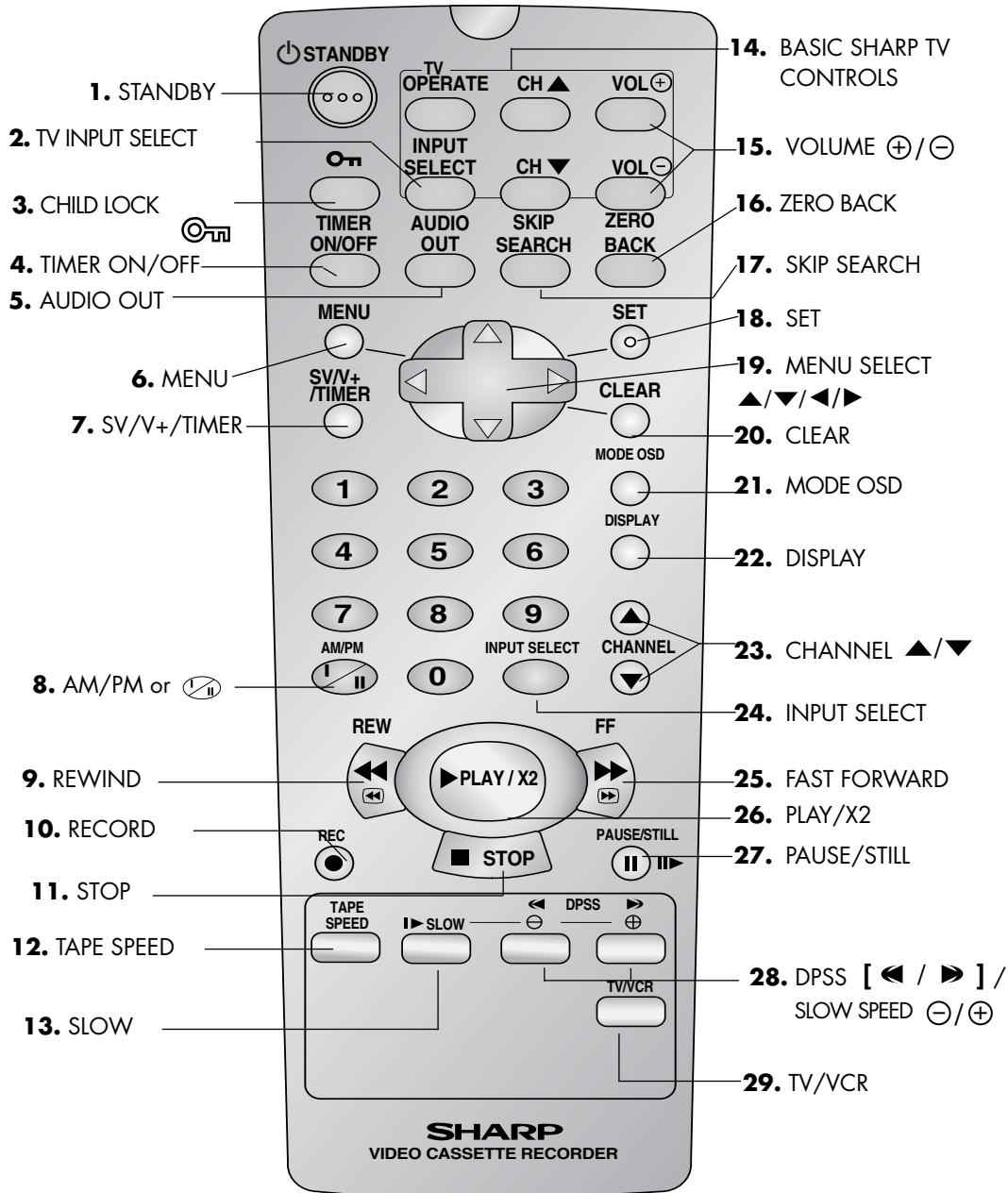
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**THIS MANUAL COVERS A RANGE OF MODELS.
ALL OF THE FEATURES MENTIONED MAY NOT NECESSARILY APPLY TO YOUR VCR.**



(i)

REMOTE CONTROL



VCR FRONT PANEL/REMOTE CONTROL EQUIVALENT FUNCTIONS

If you prefer, or if remote control batteries fail, you will need to use the VCR front panel controls. The only differences in function are shown below:

FUNCTION OSD	OPERATION WITH REMOTE CONTROL	OPERATION WITH VCR FRONT PANEL
Moving UP/DOWN menu Moving LEFT/RIGHT menu	[$\blacktriangle/\blacktriangledown$] -buttons [$\blacktriangleleft/\blacktriangleright$] -buttons	CHANNEL $\blacktriangledown/\blacktriangle$ buttons. Press FAST FORWARD/REWIND

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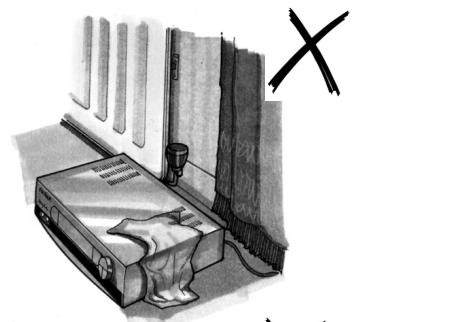
BEFORE USING YOUR VCR

IMPORTANT NOTES ON YOUR VCR

IDEAL VCR LOCATION

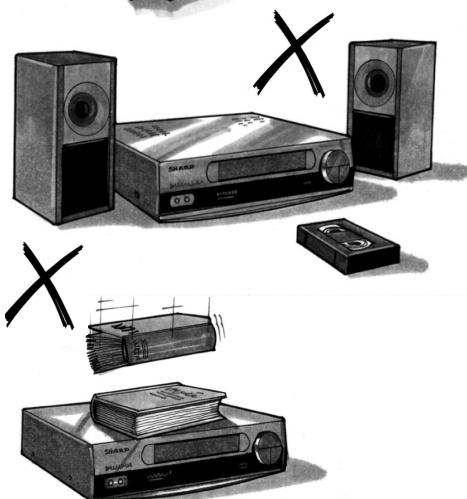
PLACE THE VCR..

- ... on a flat level surface away from radiators or other heat sources and out of direct sunlight.
- ... and video tapes away from magnetic sources such as speakers or microwave ovens.
- ... at least 8" (20cm) away from the TV.
- ... away from curtains, carpets or other materials and allow ventilation space around the VCR.



DO NOT...

- ... block the air-vent openings.
- ... expose the VCR to excessive dust, mechanical vibration or shock.
- ... place any heavy object or liquid on top of the VCR. If liquid drops inside the VCR unplug immediately and contact your SHARP dealer. Do not use the VCR.
- ... insert or drop anything into the tape compartment or through the air-vents, as this could result in serious damage, fire or an electric shock.

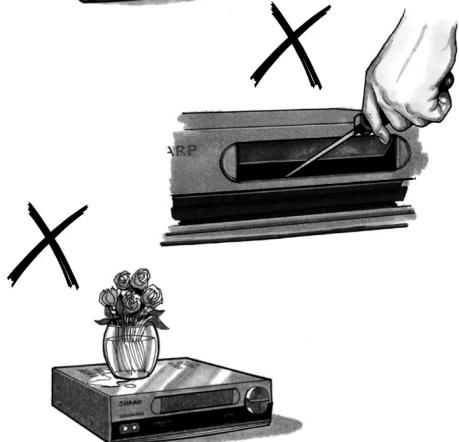


POWER SOCKETS

- To avoid overheating or even fire, insert the plug correctly into the socket.

DO NOT...

- ... overload power sockets, this may cause a fire or electric shock.
- ... pull the power cord to disconnect the plug from the mains.
- ... bind the power cords together.
- This VCR is not equipped with a mains power switch. Accordingly, nominal current to drive the clock is drawn at all times when the AC power cord is plugged into a wall socket. If the VCR is not to be used for an extended period be sure to unplug the cord.



BEFORE USING YOUR VCR

UNPACKING THE ACCESSORIES

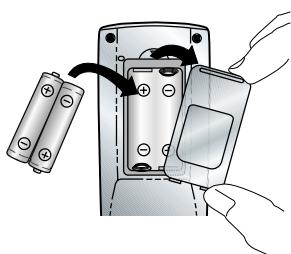
CHECK ALL THESE ACCESSORIES ARE SUPPLIED WITH YOUR VCR. CONTACT YOUR DEALER IF ANY ARE MISSING.



**(TYPE AA/R6/UM3)
BATTERIES (X2)**
for the remote control unit.



RF CONNECTION CABLE
connects the VCR to the TV.



Battery cover

To fit the batteries into the remote control

Remove the battery cover on the back of the remote control.
Fit the batteries: \ominus to \ominus and \oplus to \oplus terminals.
Place the battery cover back into position.

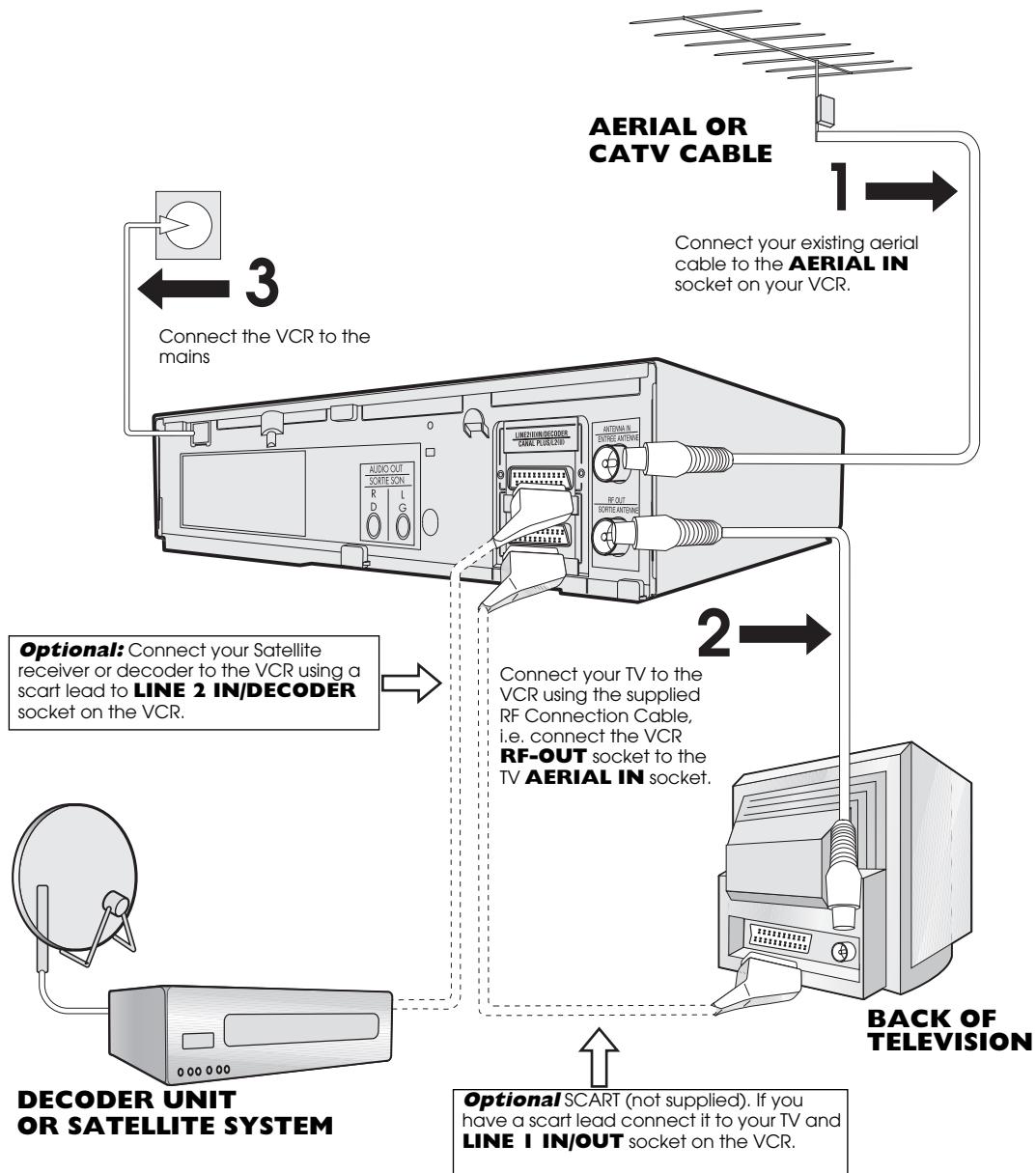


Remote Control

- Remote Control must be pointed towards the VCR to operate.
- Do not expose to liquid or shock.
- May not function if the VCR is in direct sunlight or any other strong light.
- Replace both alkaline batteries (type AA/R6/UM3) if the remote control fails.
- Remove the batteries and keep in a safe place if you do not plan to use the VCR for several months.
- Remove and dispose of flat batteries safely and promptly.
- Incorrect use of batteries may cause them to leak or burst.

INSTALLING YOUR VCR

CONNECTING THE CABLES



✓ *The VCR is correctly connected.*

INSTALLING YOUR VCR

TUNING THE TV INTO THE VCR

This model automatically tunes the TV channels for your area, then using Teletext information sorts the TV channels into a standard order and sets the clock. If the VCR has not previously been tuned-in, instructions will be given on screen to guide you through this procedure.

1. Ensure your VCR is still in the STANDBY mode.
2. Switch on the TV. Select an unused channel on your TV for your VCR (there may be a dedicated video channel refer to your TV operation manual).
3. Press **STOP**. The VCR will search and display the ideal RF channel.
 - **If you are connected via a scart lead, go to step 5.**



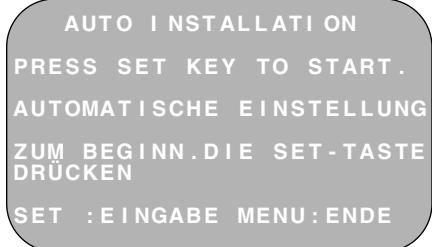
Example:



CAUTION:

- If the clear button is pressed at this point it will not allow the TV to be tuned to the VCR. Refer to RF through ON/OFF below.

4. Tune the selected channel on your TV (refer to your TV manual) until the menu screen appears.
5. Press **SET** to store the RF channel setting and continue with the installation.



*Blue
Background
with White
Text*

If the above screen does not appear, follow the procedure **RESET THE VCR**

NOTE:

- If you have a preferred channel, the RF channel can be set manually (21-69) after Step 3 using (**▲** / **▼**) keys.

RF THROUGH ON/OFF:

- If you wish to connect your VCR to the TV with only a scart lead, the RF Output on your VCR can be turned OFF and ON at Point 3 by pressing the **CLEAR** button then continuing with the installation. This will help minimise interference.

✓ The TV is tuned to the VCR.

INSTALLING YOUR VCR

AUTO INSTALLATION

6. Press (**▲ / ▼**) to select your language and press **SET** to confirm.
7. Press (**▲ / ▼**) to select your country and press **SET** to confirm.
8. Ensure your AERIAL/SCART cable is connected to your VCR and then press **SET** to confirm.

6.



Auto installation may take a few minutes

On completion the MOVE menu will appear showing the preset channel order. By pressing the **MODE OSD** button, the VCR will change to a blue background. This may help you see which channels your VCR has tuned in. Press **MENU** to exit.

If the clock is not automatically set, the clock screen will appear, refer to **MANUALLY SETTING THE CLOCK**.

If you wish to customise the channel order refer to **MANUALLY SORTING CHANNELS**.

Refer to the **CUSTOMISED INSTALLATION** chapter if

- Your VCR could not tune automatically - due to for example poor reception.
- You wish to re-arrange the channel order.
- You wish to change the time on the clock or if the VCR could not set the time.

✓ **All the programmes should now be correctly tuned in and the clock set.**

BASIC OPERATION

SCART LEAD CONNECTION (NOT SUPPLIED)

A scart lead can be connected at any time. It is recommended to connect your TV and VCR in this way as it will provide improved picture and sound quality. Please refer to the connection diagram on page 4.

IMPORTANT NOTES ON YOUR VCR AND VIDEO TAPES

VIDEO TAPES

- If you use only good quality video tapes, generally it will not be necessary to clean the video heads.
- If poor quality tapes are used, or if a tape is loaded after changing VCR location, oxide from the tape may "clog" the video heads. This will cause the playback picture to be "snowy", or even disappear.
- To remove minor contamination run a video tape in visual search mode. If this fails, you will need to have the heads cleaned by a SHARP Service Facility. Please note, if cleaning is necessary it is not covered by the guarantee.
- Use video tapes which carry the  mark.
PAL SECAM

HOW TO PLAYBACK A VIDEO TAPE



BEFORE YOU PLAYBACK A VIDEO TAPE

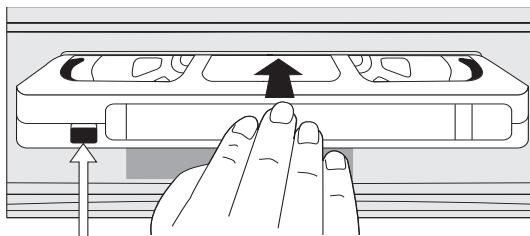
Condensation forms in the VCR when it is moved out of or into a warm place. If you try to playback or record, the video tape and VCR may be damaged. Turn the VCR on and wait for about two hours until the VCR reaches room temperature before operating.

PLAYBACK

1. Switch on your TV and select the video channel.

2. Carefully push a pre-recorded video tape into the tape compartment. This will switch the VCR on.

- If the record-protection tab has been removed, the VCR will start playback as soon as the video tape has been loaded.



Record protection tab

3. To start playback, press **PLAY/X2 (►)** once.

BASIC OPERATION

HOW TO PLAYBACK A VIDEO TAPE

- For double speed playback (without sound), press **PLAY/X2** (►) again.
- To revert to normal playback, press **PLAY/X2** (►) again.
- To stop the video tape, press **STOP** (■).
- To eject the tape press **▲ EJECT** on the VCR.

SHARP SUPER PICTURE

SHARP SUPER PICTURE should enhance the picture quality during playback. It is normally set to ON. To turn **SHARP SUPER PICTURE** on or off press **SUPER P.** on the VCR front panel.

PICTURE DISTURBANCE DURING PLAYBACK

This VCR has an automatic tracking system which reduces picture disturbance when you start to playback a video tape. When auto-tracking is in operation  flashes on the on-screen display. If the picture still has disturbance you may need to manually track the video tape:
During PLAYBACK of a video tape.

- Press **CHANNEL ▲** or **▼** to position picture interference off the TV screen. (Manual Tracking)
- Press **CHANNEL ▲** and **▼** buttons together to start Auto Tracking.

PAUSING AND SLOW MOTION

1. Press **PLAY/X2** (►) to start the video tape playing.
2. To pause the video tape, press **PAUSE/STILL** (II) .
 - To minimise jitter whilst in pause mode press **CHANNEL ▲** or **▼**.
 - Press **PLAY/X2** (►) to resume playback.
3. To playback in slow motion (without sound) press **► SLOW** on the remote control. Slow motion speed can be adjusted using the **-** or **+** buttons next to the **► SLOW** button. Picture disturbance can be improved by using the **CHANNEL K** or **L** during slow motion playback.
 - Press **PLAY/X2** (►) to resume playback.

NOTES:

- When using SLOW MOTION function some mechanical noise may be heard.
- There will be picture interference and possibly a change to black and white picture using Pause and Slow functions.
- PAUSE mode will disengage after about 5 minutes.

BASIC OPERATION

HOW TO PLAYBACK A VIDEO TAPE

FAST FORWARDING/REWINDING A VIDEO TAPE

1. Press **STOP (■)** to stop the video tape.
2. Press **FAST FORWARD (►►) / REWIND (◀◀)** on the remote control **or** on the VCR front panel.
3. To stop fast forward/rewind, press **STOP (■)**.

FORWARD/REVERSE VISUAL SEARCH

1. During playback for continuous search mode, press **FAST FORWARD (►►) / REWIND (◀◀)** on the remote control, **or** on the VCR front panel.
2. To decrease the speed, press **FAST FORWARD (►►) / REWIND (◀◀)** on the remote control or VCR front panel again.
3. Press **PLAY/X2 (►)** to resume playback.

NOTE:

- There will be picture interference and possibly a change to black and white picture using Visual Fast Forward/Rewind functions.

BASIC OPERATION

IMMEDIATE RECORDING

SELECTION OF A CHANNEL

Select the channel by using the number buttons on the remote control, or select the next/previous channel by pressing **CHANNEL** (**▲** or **▼**).

To change between single digit and 2-digit channel numbers, press **AM/PM** (I/O).

For example, for channel 24, press **AM/PM** (I/O) then press **2 4**.

TAPE SPEED SELECTION

Your VCR has three tape speeds: SP (Standard Play), LP (Long Play) and EP (Extended Play). Press the **TAPE SPEED** button on the remote control to select the desired setting.

It is recommended that EP recordings are only played back on the VCR on which they were originally recorded.

You can record the channel you are watching or a different channel.

1. Insert a video tape into your VCR.
2. Select the channel you wish to record on the VCR.
3. To start recording, press **REC** (●).
4. To pause during recording, press **PAUSE/STILL** (II).
5. To continue recording, press **REC** (●).
6. To stop recording, press **STOP** (■) once.

SIMPLE TIMED RECORDING:

1. To specify a stop time, press **REC** (●).
2. Each additional press of **REC** (●) will delay the stop time by 10 minutes.
3. To stop recording at any time, press **STOP** (■) once.

 STOP 15:30

NOTES:

- If the tape ends before the recording is complete the VCR will stop recording, rewind, eject the tape and place the VCR into Standby mode, or just eject the tape and place the VCR in Standby/timer mode if the VCR is in timer record mode.
- If the VCR ejects the video tape when you press **REC** (●) the tape is record protected. i.e. record protection tab has been removed.

BASIC OPERATION

HOW TO SET A DELAYED RECORDING

You can make a maximum of eight delayed recordings up to a year in advance.

The example shown is for 24-hour clock operation. 12-hour clock operation can be selected from the manual clock setting menu.

12-hour clock am/pm can be selected using the **AM/PM** (12) button on the remote control.

- If appears on the VCR display, press **TIMER ON/OFF** before starting.
- Check that the clock is displaying the correct time.

SETTING A RECORDING

For example: Recording a programme on channel 3 from 21:05 to 22:30 on July 9th.

1. Press **STOP** (■) to switch on the VCR.
2. Press **MENU**.
3. Press (**▲ / ▼**) to select TIMER. Press **SET** to confirm.
4. The position which is initially highlighted is the next available timer record entry. Press **SET** to confirm this.
 - The display will automatically show today's date.
Either: If this is the date you wish to make the recording on, press **SET** to confirm this.
Or: enter the recording date using the (**▲ / ▼**) or the **NUMBER BUTTONS**. Enter two digits for the day, then two for the month. For example for July 9th, press **0 9** (9th), then **0 7** (July).
5. Then press **SET** to confirm.
6. If you want to make additional recordings at the same time each day or week, use (**▲ / ▼**) or select D (daily) or W (weekly). Then press **SET** to confirm.
7. Enter the channel using the (**▲ / ▼**) or the **NUMBER BUTTONS**. For example to record a programme on channel 3, press 0 3. Then press **SET** to confirm.

MENU SCREEN



1 / 2				
DATE	PR	START	STOP	SP
21/06	02	12:00	13:00	SP
9/07	--	--	--	--
--/--	--	--	--	--
--/--	--	--	--	--

1 / 2				
DATE	PR	START	STOP	SP
21/06	02	12:00	13:00	SP
9/07	D	--	--	--
--/--	--	--	--	--
--/--	--	--	--	--

BASIC OPERATION

HOW TO SET A DELAYED RECORDING

8. Enter the start time using the (**▲/▼**) or the **NUMBER BUTTONS** hours first then minutes (when entering less than 10 minutes add a '0' before the number), for example for 21:05 start, press **2 1 0 5**. Then press **SET** to confirm.

DATE	PR	START	STOP	1 / 2
21/06	02	12:00	13:00	SP
9/07D03		21:05	- - -	SP
- - / - -	- -	- : - -	- : - -	- -
- - / - -	- -	- : - -	- : - -	- -

9. Enter the stop time, for example for 22:30 stop, press **2 2 3 0**.

10. If you wish to change the **RECORDING SPEED**, use the (**◀/▶**) to highlight SP. Press (**▲/▼**) to select standard play (SP), long play (LP) or extended play (EP), as required.

DATE	PR	START	STOP	1 / 2
21/06	02	12:00	13:00	SP
9/07D03		21:05	- - -	LP
- - / - -	- -	- : - -	- : - -	- -
- - / - -	- -	- : - -	- : - -	- -

11. Press **SET** to confirm.

- The MENU now shows all the timer settings you have entered. If you wish to make additional timer recordings, repeat this procedure.

12. When you have completed entering timer settings, press **MENU** to remove the menu from the TV screen.

13. Press **TIMER ON/OFF** once to place the VCR in TIMER STAND-BY mode. **[■]** will be shown on the display.

DATE	PR	START	STOP	1 / 2
21/06	02	12:00	13:00	SP
9/07D03		21:05	22:30	LP
- - / - -	- -	- : - -	- : - -	- -
- - / - -	- -	- : - -	- : - -	- -

NOTES:

- If **[■]** flashes a video tape has not been inserted into the VCR.
- If the video tape is ejected when the VCR tries to record the record protection tab has been removed.
- During recording, press **STOP** (**■**) to cancel the recording. If there are further recordings to be made, the VCR will return to TIMER STANDBY.

BASIC OPERATION

HOW TO SET A DELAYED RECORDING

CHECKING, CHANGING AND CANCELLING A RECORDING

CHECKING A RECORDING

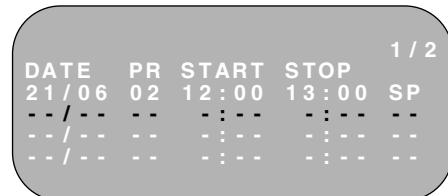
1. If in TIMER STANDBY mode, press **TIMER ON/OFF** to exit.
2. Press **STOP** to switch on the VCR.
3. Press **MENU**.
4. Press (**▲ / ▼**) to select TIMER. Press **SET** to confirm
 - All the delayed recordings in the VCR's memory will be shown.
 - You can check the settings and change or cancel them.

MENU SCREEN



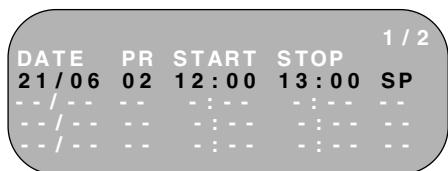
CHANGING A RECORDING

1. Follow steps 1 to 4 of **CHECKING A RECORDING**.
2. If you wish to change a delayed recording, press (**▲ / ▼**) to highlight the recording, then press **SET**.
3. Press (**◀ / ▶**) to highlight the setting to be changed and correct it by using the (**▲ / ▼**) or the **NUMBER BUTTONS**.
4. When all corrections are complete press **SET**, then press **MENU**.



CANCELLING A RECORDING

1. Follow steps 1 to 4 of **CHECKING A RECORDING**.
2. If you wish to cancel a delayed recording, press (**▲ / ▼**) to highlight the recording to be cancelled, then press **CLEAR**.
3. Press **MENU**.



NOTE:

- If there are some programmes to be recorded, do not forget to press **TIMER ON/OFF** button to return the VCR to TIMER STANDBY mode.

ADVANCED OPERATION

AUDIO AND YOUR VCR

HI-FI STEREO SOUND

Stereo sound is possible from this VCR if you have a **stereo TV connected to the VCR with a scart lead**, or audio equipment connected with audio phono leads. The VCR is normally set so that stereo sound is possible. The sound output from the VCR is controlled by the

AUDIO OUT button on the remote control. If you wish to change the sound output you can use the **AUDIO OUT** button as follows:

- Press **AUDIO OUT** once. The LEFT audio channel will be sent to BOTH speakers. **L** will appear on the VCR display.
- Press **AUDIO OUT** twice. The RIGHT audio channel will be sent to BOTH speakers. **R** will appear on the VCR display.
- Press **AUDIO OUT** three times. The MONO track will be sent to BOTH speakers. **L** and **R** will disappear from the VCR display.
- Pressing **AUDIO OUT** a fourth time, normal Hi-Fi stereo sound will be heard. **L** and **R** will appear on the VCR display.

IGR Hi-Fi STEREO SOUND

Your VCR can receive and record IGR sound. The VCR is normally set so that IGR sound is possible if it is present on the receiving signal, otherwise the VCR will automatically switch to receive the mono signal.

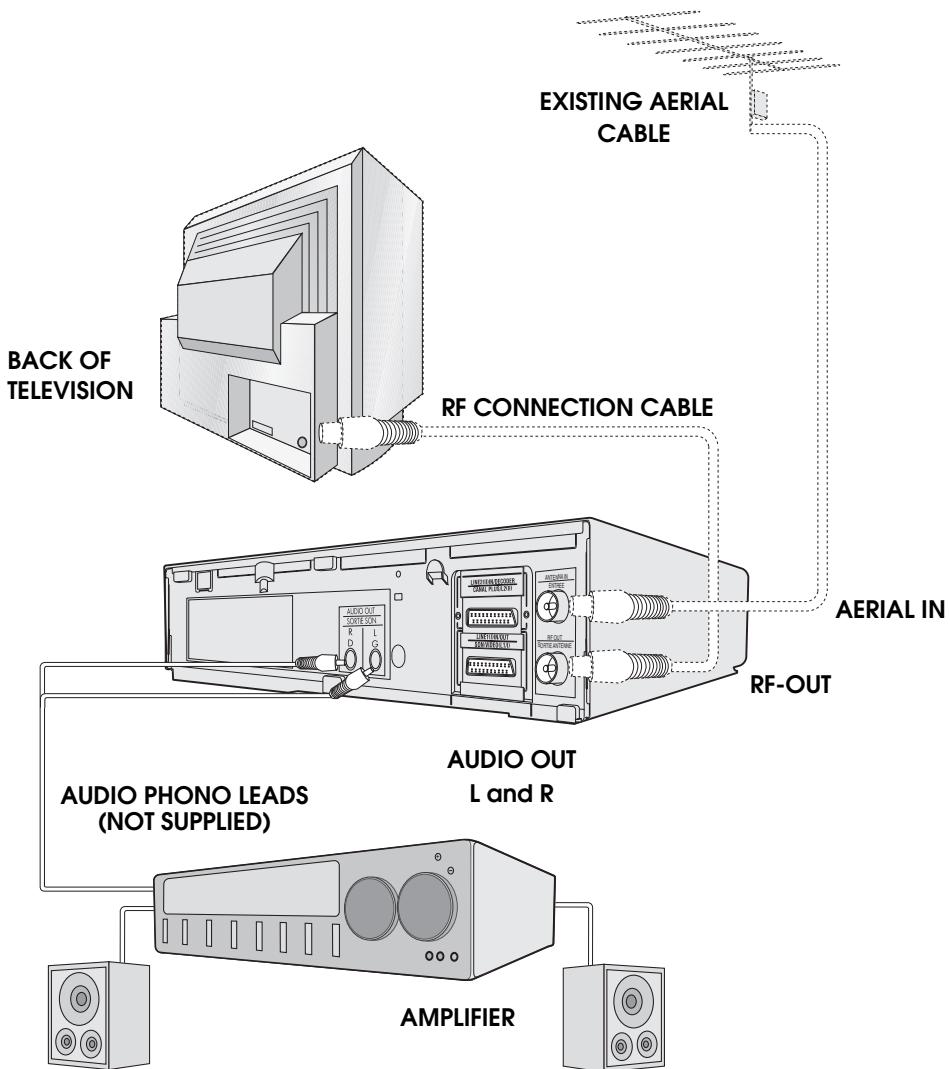
NOTES:

- If the tape being played back does not carry sound recorded on Hi-Fi tracks, L and R will not appear on the display.
- If the sound contains 'crackling' or 'popping' noises the sound quality may be improved by adjusting the tracking using CHANNEL **▲/▼**.
- If the poor quality is for a long period the VCR will automatically select the mono track and the sound will be in mono.
- Not all TV transmitters provide IGR sound. In this case the VCR automatically switches to receive the mono signal.

ADVANCED OPERATION
AUDIO AND YOUR VCR

CONNECTING TO AUDIO EQUIPMENT

The diagram below shows how to connect your VCR to audio equipment. When connected in this way stereo sound is possible from the speakers.



ADVANCED OPERATION

PLAYBACK OF A VIDEO TAPE

CHECKING THE AMOUNT OF TAPE REMAINING

When you load a video tape into the VCR it can calculate approximately the amount of video tape remaining in hours and minutes. This is useful in determining whether or not there is sufficient tape left to make a recording.

When a video tape is playing, the amount of tape remaining is calculated for you automatically.

To display the amount of video tape remaining:

1. Load the video tape into the VCR
2. Press **DISPLAY** on the remote control as many times as necessary until "R" appears on the VCR display. The tape will wind forward and then return to its original position. The tape remaining will be shown on the VCR display in hours and minutes.

For example:

In Standard Play, 1 hour 23 minutes is left on the tape:



In Long Play, 2 hours 46 minutes is left on the tape:



In Extended Play, 4 hours 9 minutes is left on the tape:



NOTES:

- Do not interrupt the tape remaining calculation.
- If less than 5 minutes of tape remains the display will flash.

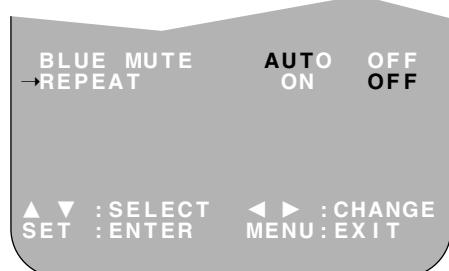
PLAYING BACK A VIDEO TAPE REPEATEDLY

You can set your VCR to automatically rewind at the end of playing a video tape and replay the entire tape again. REPEAT will appear on the on-screen display when selected.

To use this feature:

1. Press **MENU** to display the main menu on the screen.
2. Press (**▲** / **▼**) to select MODE.
3. Press **SET**.
4. Press (**▲** / **▼**) to select REPEAT.
5. Press (**◀** / **▶**) to select ON.
6. Press **SET**.
7. Press **MENU** to return to normal screen.

MODE MENU SCREEN



ADVANCED OPERATION

LCD DISPLAY

TIME OF DAY

Shows current time of day, if the clock is set.

Press the **DISPLAY** button until the time of day appears. For example, 21:20 appears:



CHANNEL STATUS

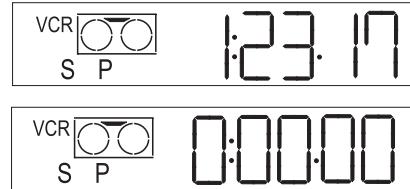
Shows the current VCR channel preset. Press the **DISPLAY** button until the channel number appears, for example:



TAPE COUNTER AND ZERO BACK

Tape counter measures the current position of the video tape in real time. ZERO BACK uses the tape counter to determine a specific point on a tape you may wish to return to.

1. Press the **DISPLAY** button until tape counter appears, for example:
2. To identify the current position on a video tape press the **CLEAR** button and the tape counter will appear:



When you wish to return to this position on the video tape, press **ZERO BACK**. The tape will rewind/advance to this point.

NOTE:

- The tape counter will only operate on recorded sections of tape.

DISPLAY BRIGHTNESS

The LCD display brightness can be changed to suit the ambient lighting in the room. Switch on the VCR (ensure the menu screen is not on) then press and hold the **DISPLAY** button for approximately **2 seconds**. This will reduce the brightness of the VCR display. Repeat the process to change the display back to the previous setting.

ADVANCED OPERATION

SEARCHING THE VIDEO TAPE

SKIP SEARCHING THE VIDEO TAPE

You can search the tape in 30 second time intervals. To do this follow the procedure below:

1. Press **PLAY/X2** (►) to start the video tape playing.
2. Press **SKIP SEARCH** on the remote control.
The number of times you press **SKIP SEARCH** determines the forward search time.
 - After searching, normal playback will resume automatically.

1 press	= 30 seconds.
2 presses	= 1 minute.
3 presses	= 1 minute 30 seconds.
4 presses	= 2 minutes.

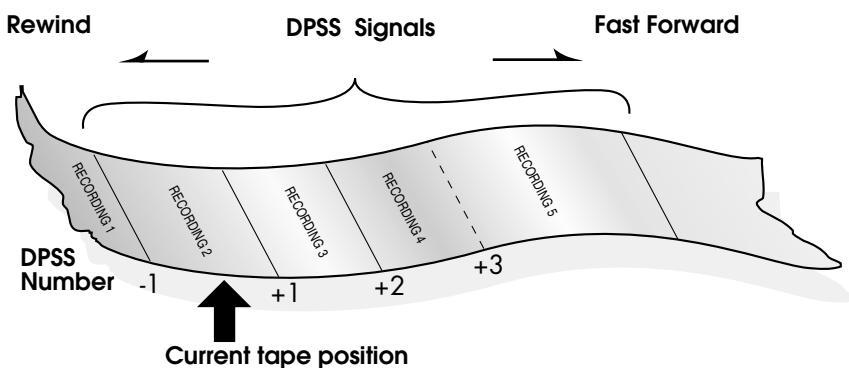
DIGITAL PROGRAMME SEARCH SYSTEM (DPSS)

Your VCR records a marker signal on the tape at the start of each recording. These signals can be used later to locate the starting point of a recording.

Press **DPSS** ◀ / ► to locate a previous programme or the next programme.

For example,

1. Load the video tape into the VCR.
2. Press **DPSS** ► three times. **DPSS 3** will appear on the on-screen display, and the VCR will fast forward to locate the third recording after the current one.
3. Press **DPSS** ◀ once. **DPSS -1** will appear on the on-screen display and the VCR will rewind to locate the beginning of the current recording.



4. To cancel the search before it has finished, press **STOP** (■) or **PLAY/X2** (►).

NOTES:

- Recordings must be longer than 3 minutes.
- The starting point of playback may vary.
- This feature will only work with video tapes recorded on a VCR with the DPSS feature.

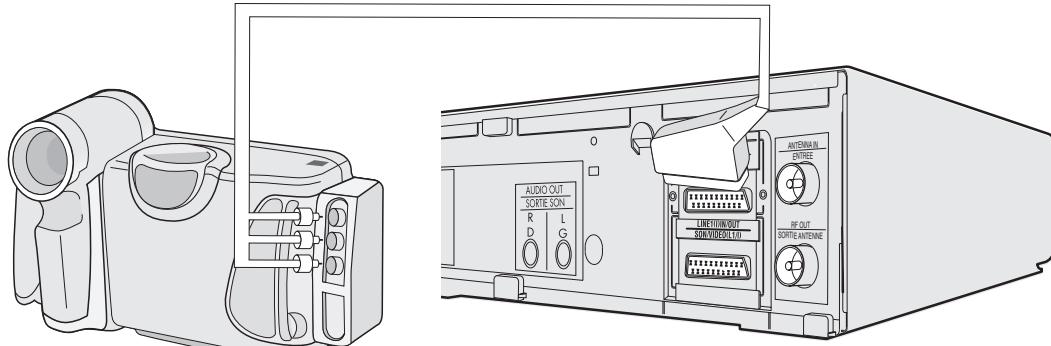
ADVANCED OPERATION

RECORDING FROM OTHER EQUIPMENT

You can record video and audio signals from various sources, for example a camcorder, onto a video tape using your VCR.

For example, recording from a camcorder connected to LINE 2 IN/DECODER on your VCR:

Optional SCART connection (not supplied).

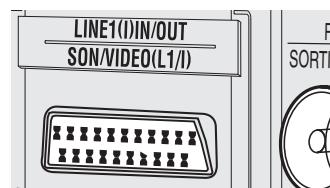
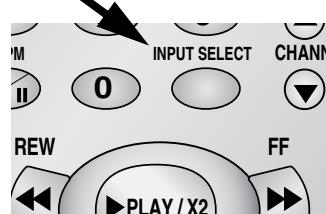


Mono/Stereo Camcorder

1. Load tape into the VCR.
2. Press **INPUT SELECT** on the remote control until the VCR display shows **L2**.
3. If you wish to record from a source connected to LINE 1 IN/OUT, select **L1**.
4. If you wish to record from a source connected with audio phono leads to the sockets on the front of the VCR and S-VIDEO connection lead, select **L3**.
5. Press **REC** to start the recording.



Input Select



NOTES:

- There are many different ways of connecting external equipment to your VCR. Please refer to your equipment operation manuals for further information.

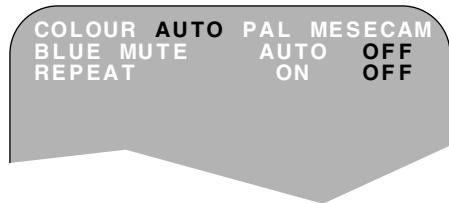
ADVANCED OPERATION

COLOUR

If the VCR is playing poor quality recording, the picture may turn black and white. Selecting PAL/MESECAM may improve this (depending on the recording), although coloured speckles may appear on black and white recordings.

MODE MENU SCREEN

1. Press **MENU** to display the main menu on the screen.
2. Press (**▲** / **▼**) to select MODE.
3. Press **SET**.
4. Press (**▲** / **▼**) to select COLOUR.
5. Press (**◀** / **▶**) to select AUTO/PAL or MESECAM.
6. Press **SET** and then **MENU** to return to the normal screen.



BLUE MUTE

The TV screen will be blue if a TV channel with no signal is selected, an unrecorded section of tape is played or the quality of the recording on the tape is poor. Select OFF to disable this feature.

1. Follow steps 1 to 3 from COLOUR.
2. Press (**▲** / **▼**) to select BLUE MUTE.
3. Press (**◀** / **▶**) to select OFF.
4. Press **SET** and then **MENU** to return to the normal screen.

SPECIAL FEATURES ON YOUR VCR

CHILD LOCK

You can lock your VCR with this feature. It will work even when the VCR is in standby, preventing children from operating the VCR.

TO ENGAGE CHILD LOCK

Press and hold  on the remote control for about 2 seconds.

 flashes and then  remains lit on the VCR display confirming that CHILD LOCK has been activated.

Regardless of what other operating buttons are touched, the VCR will continue to operate in its present mode. If CHILD LOCK is activated during playback, once the tape reaches its end, the VCR will automatically rewind the tape, eject it, and turn the power off.

TO DISENGAGE CHILD LOCK

Press and hold  for about 2 seconds.

 starts flashing and then disappears. CHILD LOCK is disengaged.

NOTES:

- If you attempt to change modes by pressing another button while CHILD LOCK is on, the  indicator will flash on the VCR display.
- If power is interrupted for more than 1 minute (due to power failure etc), CHILD LOCK may disengage.

DECODER SWITCHING OPERATION

If you connect a separate decoder to the VCR connected to L2 as previously shown, you will need to set the decoder function to **ON** in order to record the descrambled signal and/or watch it on your TV. Now, when the VCR receives a scrambled signal it is output via LINE 2 terminal to the decoder. The decoder then outputs the descrambled signal back to LINE 2 terminal and the signal can be recorded. The VCR outputs the descrambled signal to your TV through the LINE1 terminal and you can watch the descrambled picture.

When making recordings using a separate decoder connected as shown remember to leave the decoder function ON.

If you connect a decoder unit to the VCR, the decoder unit provides a switching signal which will automatically allow your TV to display the descrambled signal routed through the VCR. To use this feature make sure that the VCR is connected to both TV and decoder unit by SCART leads. Then:

- Press **STANDBY** to place the VCR in Stand-by mode, OR
- Press **[TV/VCR]** on the remote control to place the VCR in 'VCR mode'. 'VCR' will appear on the display.

If you switch the decoder function ON when connected to a decoder unit as shown you will NOT be able to watch the descrambled picture in TV mode or in VCR mode.

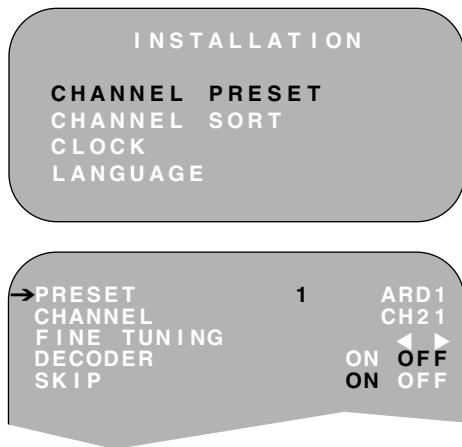
CUSTOMISED INSTALLATION

MANUALLY TUNING A CHANNEL

Normally it will not be necessary to tune in a broadcast channel manually except in unusual circumstances such as poor signal.

Ensure the video channel is selected on the TV.

1. Press **MENU**.
2. Press (**▲/▼**) to select SET UP. Press **SET** to confirm.
3. **CHANNEL PRESET** will be highlighted. Press **SET**.
4. Press (**▲/▼**) to select **CHANNEL**.
5. Press (**1/II**) to select CH or CC. This will determine whether off air (CH) or cable (CC) is tuned first. Note that both off air and cable will be tuned regardless of setting.
6. Press (**◀/▶**) to start tuning in either direction. Tuning will stop when a channel is received. If it is not the desired channel, press (**◀/▶**) to continue tuning.
7. Press (**▲/▼**) to select **FINE TUNING**. Press and hold (**◀/▶**) until the sharpest colour picture is obtained.



IMPORTANT NOTE:

8. If you connect an independent decoder, you must press (**▲/▼**) to select DECODER, then select (**◀/▶**) to turn the decoder function ON.
9. Press (**▲/▼**) to select SKIP. The SKIP function determines whether the channel can be selected when using the **CHANNEL** (**▲/▼**) instead of the **NUMBER BUTTONS**. Press (**◀/▶**) to select ON or OFF for this option.
10. Press **SET** to confirm.
11. Press **MENU** to leave this function.

CUSTOMISED INSTALLATION
BROADCAST AND CATV CHANNELS

	Station Signals	Real Channel Numbers		Station Signals	Real Channel Numbers
V H F	2/A •	CH:02	C A T V	S01/S21 ▲	CH:75
	3/B •	CH:03		S02/S22 ▲	CH:76
	4	CH:04		C •/S03/S23 ▲	CH:77
	5/D •	CH:05		S24 ▲	CH:78
	6/3 •	CH:06		S25 ▲	CH:79
	7/F •	CH:07		S1	CH:80
	8	CH:08		55	CH:65
	9/G •	CH:09		M1/S1	CC:01
	10/H •	CH:10		MS/S2	CC:02
	11/H1 •	CH:11		:	:
U H F	12/H2 •	CH:12		M10/S10	CC:10
	S11	CH:13		U1/S11	CC:11
	21	CH:21		:	:
	22	CH:22		U10/S20	CC:20
U H F	:	:		S21	CC:21
	:	:		:	:
	68	CH:68		S40	CC:40
	69	CH:69		S41	CC:41

• Available in Italy ▲ Available in Switzerland

NOTES:

- The VCR has 84 programmable channel positions, each of which can be set to any of the broadcast and CATV channels shown in the table. If you select CC on the menu, cable will be tuned first. Note that both cable and non-cable will be tuned regardless of the setting.

CUSTOMISED INSTALLATION

MANUALLY SORTING CHANNELS

SORTING THE CHANNELS INTO YOUR PREFERRED ORDER

You can change the order of the channels with the following procedure.

1. Press **MENU**.
2. Press (**▲ / ▼**) to select **SET UP**. Press **SET** to confirm.
3. Press (**▲ / ▼**) to select **CHANNEL SORT**. Press **SET** to confirm.
4. The **MOVE** position will be highlighted. Press **SET** to confirm.
5. Press (**▲ / ▼ / ◀ / ▶**) to highlight the channel to be moved. Press **SET** to confirm.
6. Press (**▲ / ▼ / ◀ / ▶**) to highlight the new position for the channel. Press **SET** to confirm.
7. If any more channels are to be moved, repeat procedure from step 5.
8. When all the channels are in your preferred order, press **CLEAR** to return to the **CHANNEL SORT** menu or press **MENU** to return to a normal screen.

2. MENU SCREEN



5.

	MOVE	1 / 5
1 CH 2 1	7	1 3
2 CH 3 2	8	1 4
3 CH 4 3	9	1 5
4 CH 5 4	1 0	1 6
5 CH 6 5	1 1	1 7
6	1 2	1 8

6.

	MOVE	1 / 5
1 CH 6 5	7	1 3
2 CH 2 1	8	1 4
3 CH 3 2	9	1 5
4 CH 4 3	1 0	1 6
5 CH 5 4	1 1	1 7
6	1 2	1 8

NOTE:

If, when moving channels the picture becomes unclear and the on-screen display is unreadable, the **MODE OSD** button can be used to toggle between a blue background and the normal picture.

The blue background will be shown until either another channel is selected or the **MODE OSD** button is pressed again.

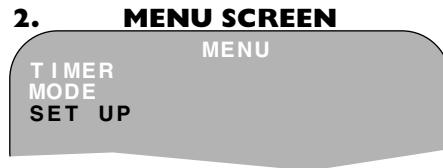
CUSTOMISED INSTALLATION

MANUALLY SORTING CHANNELS

DELETING CHANNELS

If there is a channel you wish to delete from the VCR memory you can follow the procedure below.

1. Press **MENU**.
2. Press (**▲ / ▼**) to select **SET UP**. Press **SET** to confirm.
3. Press (**▲ / ▼**) to select **CHANNEL SORT**. Press **SET** to confirm.
4. Press (**▲ / ▼**) to select **CANCEL**. Press **SET** to confirm.
5. Press (**▲ / ▼ / ◀ / ▶**) to highlight the channel to be cancelled.
6. Press **SET** twice to cancel the channel.
7. When all the channels you wish have been cancelled, press **CLEAR** to return to the **CHANNEL SORT** menu or press **MENU** to return to a normal screen.



	CANCEL	1 / 5
1CH21	7	13
2CH32	8	14
3CH43	9	15
4CH54	10	16
5CH65	11	17
6CH5	12	18

	CANCEL	1 / 5
1CH21	7	13
2CH32	8	14
3CH54	9	15
4CH65	10	16
5CH5	11	17
6	12	18

NOTE:

If, when deleting channels the picture becomes unclear and the on-screen display is unreadable, the **MODE OSD** button can be used to toggle between a blue background and the normal picture.

The blue background will be shown until either another channel is selected or the **MODE OSD** button is pressed again.

CUSTOMISED INSTALLATION

CHANGING THE ON-SCREEN DISPLAY LANGUAGE

Changing the language used by the on-screen display will not change the operation of the VCR or make it suitable for any other broadcast standard.

1. Press **MENU**.
2. Press (**▲/▼**) to select SET UP. If the display is not in a language you can understand, this is the fourth option from the top. Press **SET** to confirm.
3. Press (**▲/▼**) to select LANGUAGE (the last option).
4. Then press **SET** to confirm.
5. Press (**▲/▼ / ◀/▶**) to select your language. Then press **SET** to confirm. Press **MENU** to return to a normal screen.



MANUALLY SETTING THE CLOCK

1. Press **MENU**. Press (**▲/▼**) to select SET UP. Press **SET** to confirm.
2. Press (**▲/▼**) to select CLOCK. Press **SET** to confirm.
3. Press (**▲/▼**) to select either 12 or 24 hour clock.
4. Press (**◀/▶**) to select TIME. Enter the time using the **NUMBER BUTTONS** or (**▲/▼**). If the minutes are less than 10, enter the leading 0. If using the 12 hour clock enter AM or PM by pressing **(1/11)** on the remote control.
5. Press (**◀/▶**) to select DATE. Enter the date using the **NUMBER BUTTONS** or (**▲/▼**). For example, for 1st April enter **01 04**.
6. Press (**◀/▶**) to select YEAR. Enter the last two digits of the year using the **NUMBER BUTTONS** or (**▲/▼**). For example, for 2002 enter **02**. For the year 2003 enter **03**.

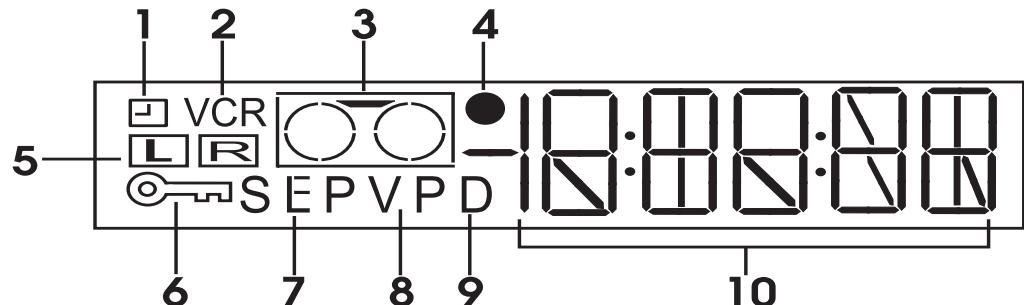


NOTE:

- You will need to update the clock for daylight saving.

MORE INFORMATION ABOUT YOUR VCR

VCR DIGITAL DISPLAY



NOTE:

- Some models do not have all the features shown, therefore, they will not appear on the display.

SELECTING THE OUTPUT FROM THE VCR

If your VCR is connected to your TV with a scart lead, when you start to play a video tape the VCR will automatically switch its output so that the playback picture is shown on the TV. In this case 'VCR' will appear on the VCR display.

You can manually override this by pressing **[TV/VCR]** on the remote control. Now the TV broadcast channel will be seen on the TV screen and 'VCR' will disappear from the VCR display.

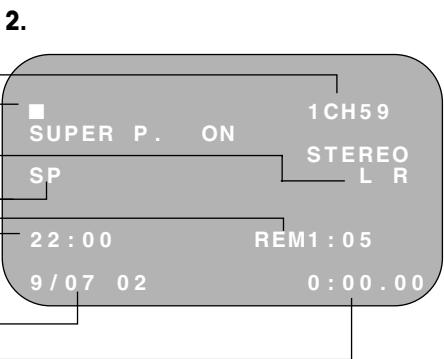
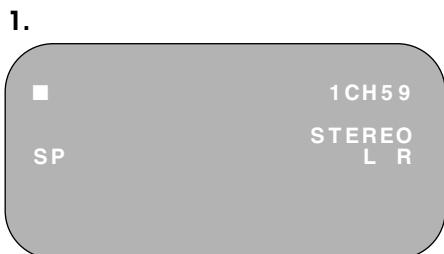
- Pressing **[TV/VCR]** again will return the TV picture to the playback picture.

MORE INFORMATION ABOUT YOUR VCR

ON-SCREEN DISPLAY

All the information you need on the VCR status will be summarised on the on-screen display. If you are recording, playing back a tape or watching a broadcast on the video channel you can call up three standard on-screen displays. The display can be selected by pressing the **MODE OSD** button on the remote control, 1,2,3 or 4 times.

1. **AUTO**, the current mode and channel number will be displayed for 3 seconds when an operation or number button is pressed.
2. **FULL**, all the active features will also be shown on screen.



3. **COUNTER**, this display will show the tape counter and amount of tape remaining.
4. **DISPLAY OFF**, this will remove the display from the screen.



NOTES:

- The default time and date will not be displayed if the clock has not been set.
- The VCR will return to display 1. each time it is switched on.
- If you are recording from this VCR to another, make sure you remove the display from the screen otherwise it will be recorded.

MORE INFORMATION ABOUT YOUR VCR

SPECIFICATIONS

Format:	VHS PAL standard
Number of heads:	6
Video signal system:	PAL/MESECAM colour or monochrome signal: 625 lines
Hi-Fi audio recording system:	Deep layer recording system conforming to stereo Hi-Fi VHS standard.
Maximum playing time:	240 min. with E-240 video cassette in Standard Play (SP) mode. 480 min. with E-240 video cassette in Long Play (LP) mode. 720 min. with E-240 video cassette in Extended Play (EP) mode.
Tape width:	12.7 mm
Tape speed:	23.39 mm/s Standard Play (SP) 11.70 mm/s Long Play (LP) 7.8 mm/s Extended Play (EP)
Antenna:	75 Ω unbalanced
Reception channels:	VHF channel 2-12 + S1-S41, UHF channel 21-69
RF output signal:	UHF channel 21-69
Power requirement:	AC 230V, 50 Hz
Power consumption:	17 W approx. (Standby 2.5 W)
Operating temperature:	5 °C to 40 °C
Storage temperature:	-20 °C to 55 °C
Video input:	1.0 Vp-p, 75 Ω
Video output:	1.0 Vp-p, 75 Ω
Audio input:	Line1&2: -3.8 dBs, 10 kΩ; Line 3: -3.8 dBs, 47kΩ
Audio output:	Line1&2: -3.8 dBs, 1kΩ; Audio Out: -3.8 dBs, 1kΩ
Hi-Fi audio:	Dynamic range:~ 90 dBs typ. (SP); Frequency response: 20 Hz - 20 kHz; Wow and flutter: < 0.005% Wrm (JIS A)
Dimensions:	360(W) x 289(D) x 93(H) mm
Weight:	3.2 kg (approx.)
Supplied accessories:	75 Ω RF Connection cable, operation manual, remote control, AA/R6/UM3 battery (x2)

- Specifications are subject to change without notice as part of our policy of continuous improvement.
- No liability is accepted for any inaccuracies or omissions in this publication, although every possible care has been taken to make it complete and as accurate as possible.

MORE INFORMATION ABOUT YOUR VCR

TROUBLESHOOTING

AREA	PROBLEM	POSSIBLE CAUSE/CURE
<u>INSTALLATION</u>	TV will not tune in to the VCR.	<ul style="list-style-type: none"> Check all the cables are correctly connected. Check your TV manual for correct tuning of your TV.
	Auto Installation screen does not appear when the VCR is switched on OR Auto Installation is not complete.	<ul style="list-style-type: none"> Reset the VCR and complete AUTO INSTALLATION again. (Refer to VCR Reset at the back of the book.)
<u>POWER</u>	Display is not working.	<ul style="list-style-type: none"> Make sure the power cord is plugged in. Make sure the wall socket has power (plug another appliance in).
	VCR will not operate -  appears in VCR display.	<ul style="list-style-type: none"> Press the TIMER ON/OFF button to disengage timer.
	VCR will not respond to any commands.	<ul style="list-style-type: none"> Check CHILD LOCK is not engaged. Safety device operating: unplug VCR for 2 hours.
<u>PLAYBACK</u>	No picture appears.	<ul style="list-style-type: none"> Make sure the TV is set to the video channel. Check all connecting cables.
	Playback picture is snowy.	<ul style="list-style-type: none"> Adjust the tracking using CHANNEL ▲ / ▼ buttons. Try another tape. The video heads may have been contaminated - refer to a SHARP Service Facility.
	Playback recording does not playback in stereo.	<ul style="list-style-type: none"> Ensure the VCR is connected to a stereo TV and SCART lead. Programme may not carry stereo.
<u>RECORDING</u>	Tape is automatically ejected when pressing REC (●) or TIMER ON/OFF buttons.	<ul style="list-style-type: none"> The record-protection tab has been removed.

MORE INFORMATION ABOUT YOUR VCR

TROUBLESHOOTING

AREA	PROBLEM	POSSIBLE CAUSE/CURE
<u>REMOTE CONTROL</u>	The VCR can not be operated by remote control	<ul style="list-style-type: none"> • Remote control is too far away from the main unit. • Point the remote control at the VCR. • Batteries are flat - replace both. • Batteries have not been inserted correctly. • VCR is positioned in strong light.
<u>TAPE TRANSPORT/ MECHANISM</u>	Tape can not be loaded.	<ul style="list-style-type: none"> • Make sure there is no other tape in the VCR. • Make sure you are loading the tape correctly.
	Rewind is not possible.	<ul style="list-style-type: none"> • Make sure the tape is not at the start.
<u>OTHER PROBLEMS</u>	Picture does not change even though CHANNEL $\blacktriangle/\blacktriangledown$ buttons are pressed.	<ul style="list-style-type: none"> • Make sure the VCR is not in Timer or Menu mode.
	Desired channel position can not be selected.	<ul style="list-style-type: none"> • The channel position has been set to be skipped. Cancel the SKIP mode for that channel.
	No colour or poor TV picture on normal viewing.	<ul style="list-style-type: none"> • Make sure all the cables are connected properly. • Make sure the VCR power cord is properly plugged in.
	Not possible to view picture or playback through RF-OUT.	<ul style="list-style-type: none"> • Make sure the RF OUTPUT has not been switched off. (Refer to note on "RF THROUGH ON/OFF" in the "TUNING THE TV TO THE VCR" section of the manual.)
	Desired channel has interference.	<ul style="list-style-type: none"> • Possible weak signal strength, the same channel with a better signal strength may have been tuned in on another VCR preset channel. Example: VCR preset 1 = ZDF and VCR preset 14 = ZDF (Refer to Manually Sorting Channels section to move the channel to your desired position.) • TV aerial may need adjusting.
	No picture appears.	<ul style="list-style-type: none"> • Make sure the TV is on the video channel. • Check all connecting cables.

MORE INFORMATION ABOUT YOUR VCR

VCR RESET

1. Press the **STOP** button on the front of the VCR.
2. Press and hold **MENU** and the **CHANNEL DOWN ▼** button together for 10 seconds.

✓ **VCR RESET IS NOW COMPLETE**

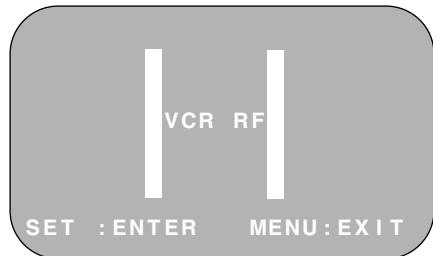
Please continue with your previous procedure.

RF CHANNEL TUNING

If you have a preferred RF output channel, this can be set manually (21-69) by following the procedure below:

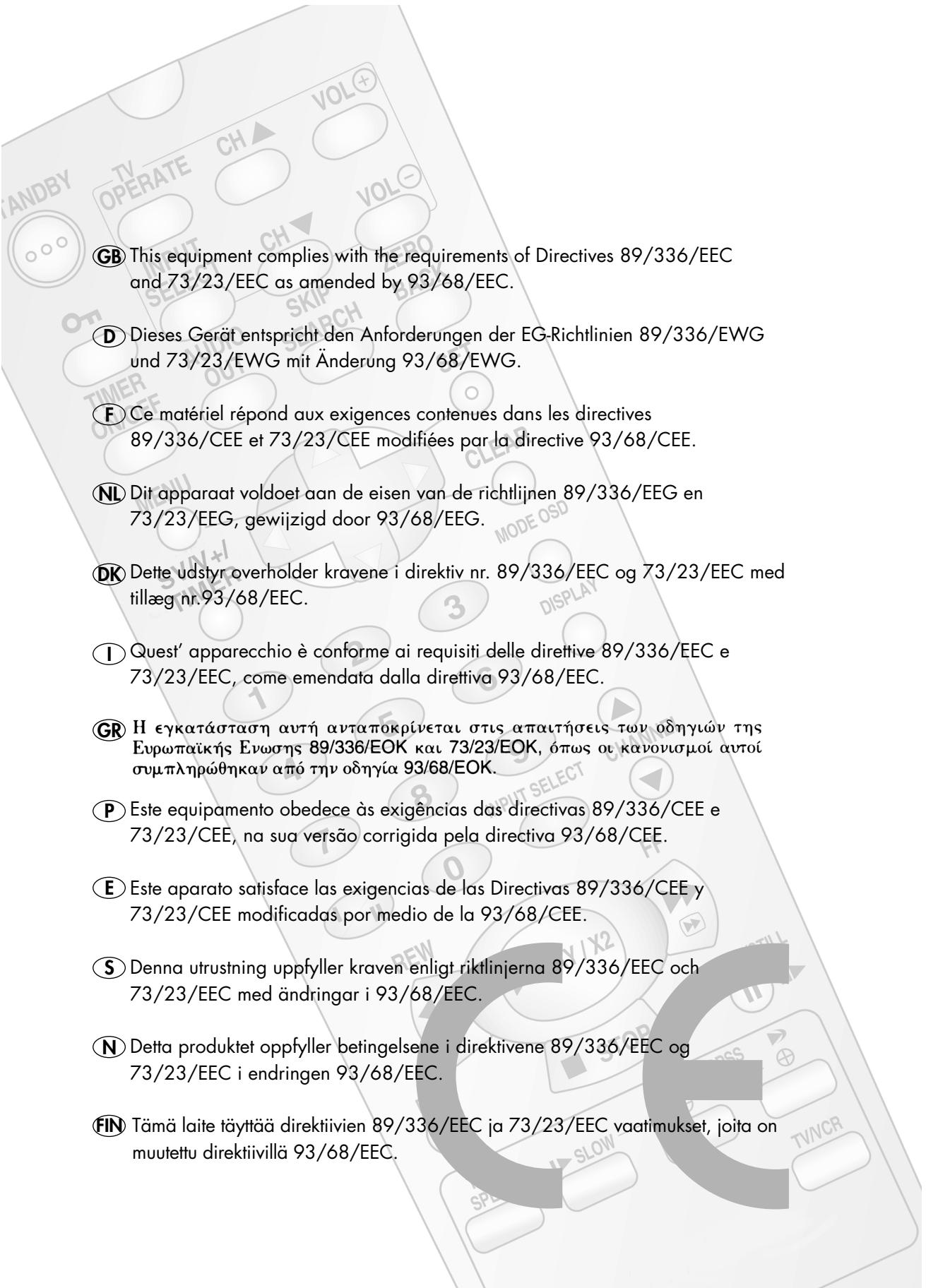
1. Press the **STANDBY** button.
2. Press and hold the **MENU** button on the VCR front panel for 3 seconds.
3. Wait for a flashing channel number to appear on the VCR display.
4. The channel number can now be changed by using the **CHANNEL (▲ / ▼)** buttons.
5. Press the **SET** button to store.
6. Your TV will now require tuning to the new channel.

(White text with
blue background)



RF THROUGH ON/OFF:

If you wish to connect your VCR to the TV with only a scart lead, the RF Output on your VCR can be turned OFF and ON by pressing the **CLEAR** button then the **SET** button on the remote control at point 3 of the "**RF CHANNEL TUNING**" above. This will help minimise interference.



SHARP

SHARP CORPORATION

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